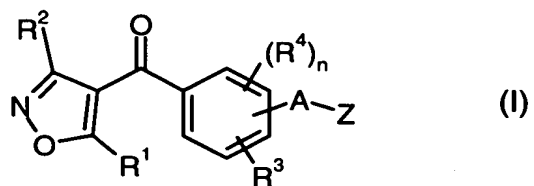


### **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application.

### **Listing of Claims:**

Claim 1. (Currently Amended): A compound of the Formula (I),



in which

n represents the number 0, 1, 2 or 3,

A ~~represents a single bond or~~ represents alkanediyl (alkylene),

R<sup>1</sup> represents hydrogen or represents in each case optionally substituted alkyl, alkenyl or cycloalkyl,

R<sup>2</sup> represents hydrogen, cyano, carbamoyl, halogen, or represents in each case optionally substituted alkyl, alkylcarbonyl, alkoxy, alkoxy-carbonyl, alkylthio, alkylsulphinyl or alkylsulphonyl,

R<sup>3</sup> represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylaminosulphonyl,

- R<sup>4</sup>** represents nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or di-alkylaminosulphonyl, and
- Z** represents an optionally substituted 4- to 12-membered, saturated or unsaturated, monocyclic or bicyclic, heterocyclic grouping which contains 1 to 4 hetero atoms (up to 4 nitrogen atoms and optionally - alternatively or additionally - one oxygen atom or one sulphur atom, or one SO grouping or one SO<sub>2</sub> grouping) and which additionally contains one to three oxo groups (C=O) and/or thioxo groups (C=S) as components of the heterocycle.

**Claim 2. (Currently Amended):** The compound according to Claim 1, wherein

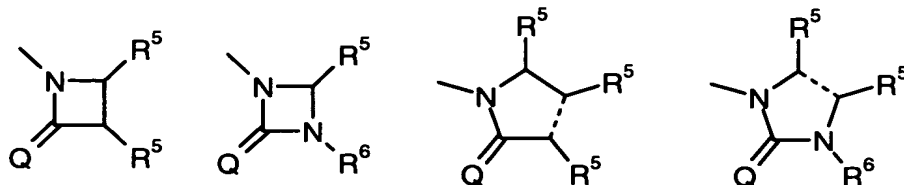
- n** represents the number 0, 1 or 2,
- A** ~~represents a single bond or~~ represents alkanediyl (alkylene) having 1 to 4 carbon atoms,
- R<sup>1</sup>** represents hydrogen, represents optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl having 1 to 6 carbon atoms, represents optionally cyano- or halogen-substituted alkenyl having 2 to 6 carbon atoms, or represents optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl having 3 to 6 carbon atoms,

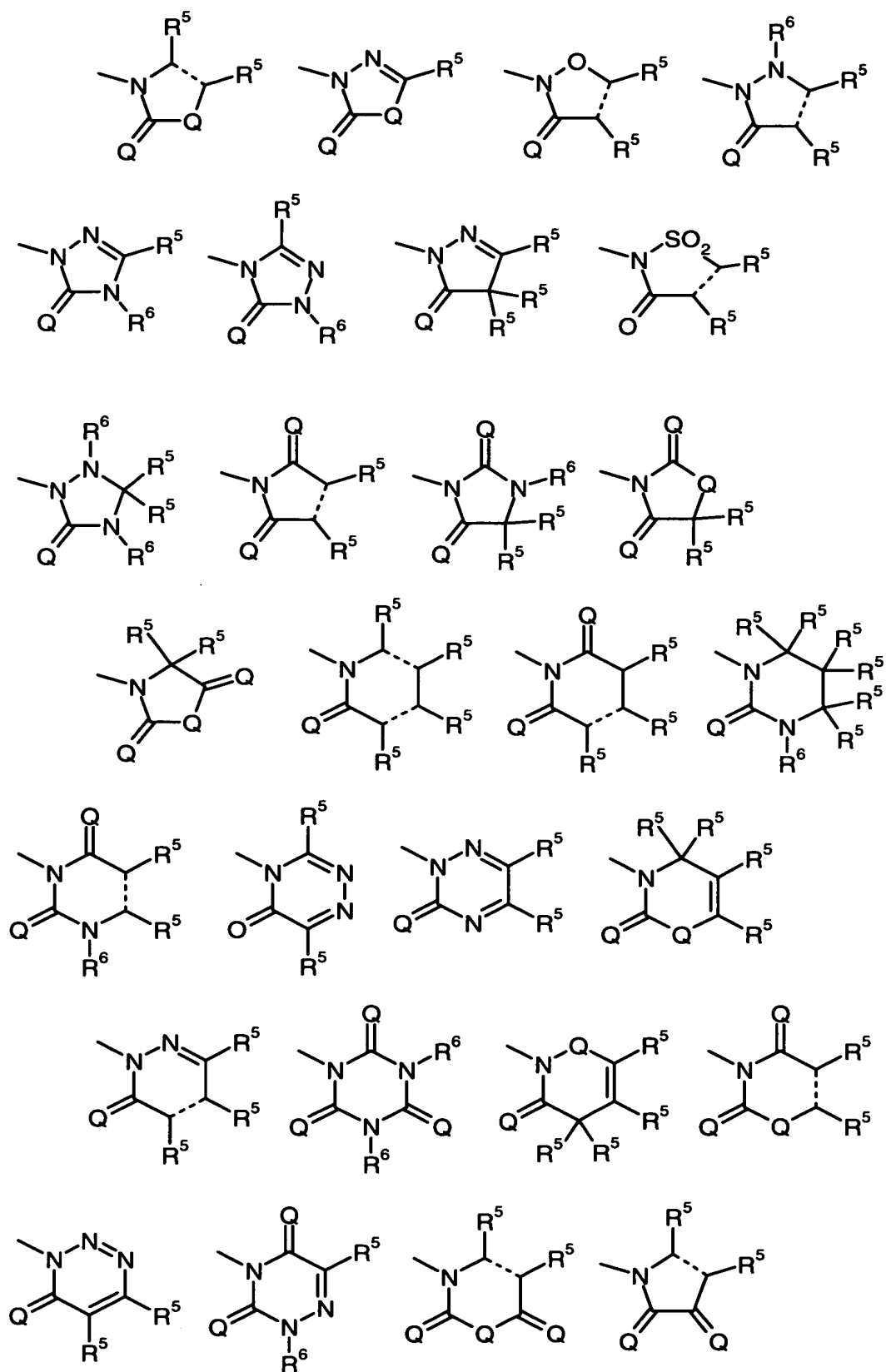
R<sup>2</sup> represents hydrogen, cyano, carbamoyl, halogen, represents in each case optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl, alkyl-carbonyl, alkoxy or alkoxycarbonyl having in each case up to 6 carbon atoms, or represents optionally halogen-substituted alkylthio, alkylsulphinyl or alkylsulphonyl having 1 to 6 carbon atoms,

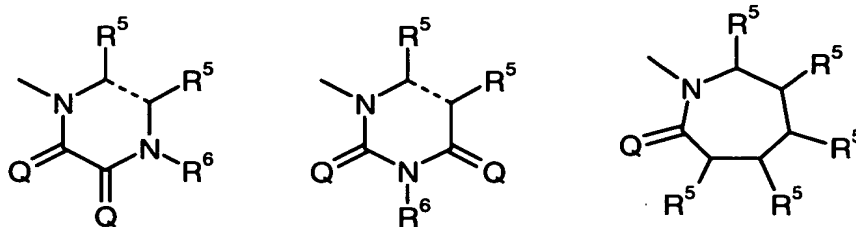
R<sup>3</sup> represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, halogen, represents in each case optionally halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl, alkoxy, alkylthio, alkylsulphinyl or alkylsulphonyl having in each case up to 4 carbon atoms in the alkyl groups, or represents alkylamino, dialkylamino or dialkylaminosulphonyl having in each case up to 4 carbon atoms in the alkyl groups,

R<sup>4</sup> represents nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, halogen, represents in each case optionally halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl, alkoxy, alkylthio, alkylsulphinyl or alkylsulphonyl having in each case up to 4 carbon atoms in the alkyl groups, or represents alkylamino, dialkylamino or dialkylaminosulphonyl having in each case up to 4 carbon atoms in the alkyl groups, and

Z represents one of the heterocyclic groupings below







in which the dotted bond is in each case a single bond or a double bond, and each heterocyclic grouping preferably only carries two substituents of the definition R<sup>5</sup> and/or R<sup>6</sup>,

Q represents oxygen or sulphur,

R<sup>5</sup> represents hydrogen, hydroxyl, mercapto, cyano, halogen, represents in each case optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl, alkylcarbonyl, alkoxy, alkoxycarbonyl, alkylthio, alkylsulphinyl or alkylsulphonyl having in each case up to 6 carbon atoms in the alkyl groups, represents in each case optionally halogen-substituted alkylamino or dialkylamino having in each case up to 6 carbon atoms in the alkyl groups, represents in each case optionally halogen-substituted alkenyl, alkynyl, alkenyloxy, alkenylthio or alkenylamino having in each case up to 6 carbon atoms in the alkenyl or alkynyl groups, represents in each case optionally halogen-substituted cycloalkyl, cycloalkyloxy, cycloalkylthio, cycloalkylamino, cycloalkylalkyl, cycloalkylalkoxy, cycloalkylalkylthio or cycloalkylalkylamino having in each case 3 to 6 carbon atoms in the cycloalkyl groups and optionally up to 4 carbon atoms in the alkyl moiety, or represents in each case optionally halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted phenyl, phenyloxy, phenylthio, phenylamino, benzyl, benzyloxy, benzylthio or benzylamino, represents pyrrolidino, piperidino or morpholino, or – if two adjacent radicals R<sup>5</sup> and R<sup>5</sup> are located at a double bond - also together with the adjacent radical R<sup>5</sup> represents a benzo grouping, and

**R<sup>6</sup>** represents hydrogen, hydroxyl, amino, alkylidenamino having up to 4 carbon atoms, represents in each case optionally halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkyl, alkoxy, alkylamino, dialkylamino or alkanoylamino having in each case up to 6 carbon atoms in the alkyl groups, represents in each case optionally halogen-substituted alkenyl, alkynyl or alkenyloxy having in each case up to 6 carbon atoms in the alkenyl or alkynyl groups, represents in each case optionally halogen-substituted cycloalkyl, cycloalkylalkyl or cycloalkylamino having in each case 3 to 6 carbon atoms in the cycloalkyl groups and optionally up to 3 carbon atoms in the alkyl moiety, or represents in each case optionally halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted phenyl or benzyl, or together with an adjacent radical R<sup>5</sup> or R<sup>6</sup> represents optionally halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted alkanediyl having 3 to 5 carbon atoms,

where the individual radicals R<sup>5</sup> and R<sup>6</sup> – if a plurality of them are attached to the same heterocyclic grouping - can have identical or different meanings within the scope of the above said definition of said radicals.

Claim 3. (Currently Amended): The compound according to Claim 1 wherein

**A** represents ~~a single bond~~, methylene, ethylidene (ethane-1,1-diyl) or dimethylene (ethane-1,2-diyl),

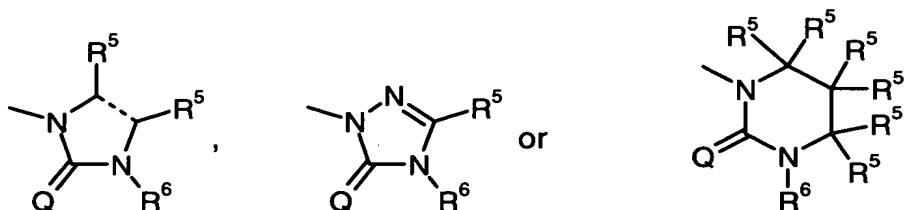
**R<sup>1</sup>** represents hydrogen, represents in each case optionally fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, methylthio-, ethylthio-, n- or i-propylthio-, methylsulphinyl-, ethylsulphinyl, n- or i-propylsulphinyl-, methylsulphonyl-, ethylsulphonyl-, n- or i-propylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, represents in each case optionally fluorine-, chlorine- or bromine-substituted propenyl, butenyl, propinyl or butinyl, or represents in each case optionally cyano-,

fluorine-, chlorine-, bromine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl,

- R<sup>2</sup> represents hydrogen, cyano, carbamoyl, fluorine, chlorine, bromine, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, acetyl, propionyl, n- or i-butyryl, methoxy, ethoxy, n- or i-propoxy, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, or represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio,
- R<sup>3</sup> represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, fluorine, chlorine, bromine, iodine, represents in each case optionally fluorine- and/or chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, methylthio-, ethylthio-, n- or i-propylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, represents in each case optionally fluorine- and/or chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted methoxy, ethoxy, n- or i-propoxy, represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, or represents methylamino, ethylamino, n- or i-propylamino, dimethylamino, diethylamino, dimethylaminosulphonyl or diethylaminosulphonyl,
- R<sup>4</sup> represents nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, fluorine, chlorine, bromine, represents in each case optionally fluorine- and/or chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, methylthio-, ethylthio-, n- or i-propylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, represents in each case optionally fluorine- and/or chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted methoxy, ethoxy, n- or i-propoxy, represents in each case optionally fluorine- and/or chlorine-

substituted methylthio, ethylthio, n- or i-propylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, or represents methylamino, ethylamino, n- or i-propylamino, dimethylamino, diethylamino, dimethylaminosulphonyl or diethylaminosulphonyl,

Z represents one of the groupings



R<sup>5</sup> represents hydrogen, hydroxyl, mercapto, cyano, fluorine, chlorine, bromine, iodine, represents in each case optionally fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, n-, i-, s- or t-butoxy-, methylthio-, ethylthio-, n- or i-propylthio-, n-, i-, s- or t-butylthio-, methylsulphinyl-, ethylsulphinyl-, n- or i-propylsulphinyl-, methylsulphonyl-, ethylsulphonyl-, n- or i-propylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, represents methylamino, ethylamino, n- or i-propylamino, n-, i-, s- or t-butylamino, dimethylamino, diethylamino, di-n-propylamino or di-i-propylamino, represents in each case optionally fluorine- and/or chlorine-substituted ethenyl, propenyl, butenyl, ethinyl, propinyl, butinyl, propenyloxy, butenyloxy, propenylthio, butenylthio, propenylamino or butenylamino, represents in each case optionally fluorine- and/or chlorine-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropyloxy, cyclobutyloxy, cyclopentyloxy, cyclohexyloxy, cyclopropylthio, cyclobutylthio, cyclopentylthio, cyclohexylthio, cyclopropylamino,



cyclobutylamino, cyclopentylamino, cyclohexylamino, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl, cyclohexylmethyl, cyclopropylmethoxy, cyclobutylmethoxy, cyclopentylmethoxy, cyclohexylmethoxy, cyclopropylmethylthio, cyclobutylmethylthio, cyclopentylmethylthio, cyclohexylmethylthio, cyclopropylmethylamino, cyclobutylmethylamino, cyclopentylmethylamino or cyclohexylmethylamino, or represents in each case optionally fluorine-, chlorine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, methoxy-, ethoxy-, n- or i-propoxy-substituted phenyl, phenyloxy, phenylthio, phenylamino, benzyl, benzyloxy, benzylthio or benzylamino, represents pyrrolidino, piperidino or morpholino, or - if two adjacent radicals  $R^5$  and  $R^5$  are located at a double bond - together with the adjacent radical  $R^5$  also represents a benzo grouping, and

$R^6$  represents hydrogen, hydroxyl, amino, represents in each case optionally fluorine- and/or chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i- or s-butyl, methoxy, ethoxy, n- or i-propoxy, methylamino, ethylamino or dimethylamino, represents in each case optionally fluorine- and/or chlorine-substituted ethenyl, propenyl, ethinyl, propinyl or propenyloxy, represents in each case optionally fluorine- and/or chlorine-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl, cyclohexylmethyl, or represents in each case optionally fluorine-, chlorine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, methoxy-, ethoxy-, n- or i-propoxy-substituted phenyl or benzyl, or together with an adjacent radical  $R^5$  or  $R^6$  represents in each case optionally methyl- and/or ethyl-substituted propane-1,3-diyl (trimethylene) or butane-1,4-diyl (tetramethylene).

Claim 4. (Previously Presented): The compound according to Claim 1 wherein

- R<sup>1</sup> represents hydrogen, represents in each case optionally fluorine-, chlorine-, methoxy-, ethoxy-, methylthio-, ethylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, or represents optionally cyano-, fluorine-, chlorine-, bromine-, methyl- or ethyl-substituted cyclopropyl,
- R<sup>2</sup> represents hydrogen, cyano, carbamoyl, fluorine, chlorine, bromine, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, or represents in each case optionally fluorine- and/or chlorine- substituted methylthio, ethylthio, n- or i-propylthio,
- R<sup>3</sup> represents hydrogen, nitro, cyano, fluorine, chlorine, bromine, iodine, methyl, ethyl, trifluoromethyl, methoxymethyl, methylthiomethyl, methylsulphinylmethyl, methylsulphonylmethyl, methoxy, ethoxy, difluoromethoxy, trifluoromethoxy, methylthio, ethylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl, ethylsulphonyl or dimethylaminosulphonyl,
- R<sup>4</sup> represents nitro, cyano, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, methoxymethyl, methylthiomethyl, methylsulphinylmethyl, methylsulphonylmethyl, methoxy, ethoxy, difluoromethoxy, trifluoromethoxy, methylthio, ethylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl, ethylsulphonyl or dimethylaminosulphonyl,
- R<sup>5</sup> represents hydrogen, hydroxyl, chlorine, bromine, methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, difluoromethyl, dichloromethyl, trifluoromethyl, trichloromethyl, chlorodifluoromethyl, fluorodichloromethyl, fluoroethyl, chloroethyl, difluoroethyl, dichloroethyl, fluoro-n-propyl,

fluoro-i-propyl, chloro-n-propyl, chloro-i-propyl, methoxymethyl, ethoxymethyl, methoxyethyl, ethoxyethyl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, fluoroethoxy, chloroethoxy, difluoroethoxy, dichloroethoxy, trifluoroethoxy, trichloroethoxy, chlorofluoroethoxy, chlorodifluoroethoxy, fluorodichloroethoxy, methylthio, ethylthio, n- or i-propylthio, fluoroethylthio, chloroethylthio, difluoro-ethylthio, dichloroethylthio, chlorofluoroethylthio, chlorodifluoro-ethylthio, fluorodichloroethylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, dimethylamino, propenylthio, butenylthio, propinylthio, butinylthio, cyclopropyl, cyclopropylmethyl, cyclopropylmethoxy, phenyl or phenoxy, and

R<sup>6</sup> represents amino, methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methoxy, ethoxy, methylamino, dimethylamino, cyclopropyl or cyclopropylmethyl, or together with R<sup>5</sup> represents propane-1,3-diyl (trimethylene), butane-1,4-diyl (tetramethylene) or pentane-1,5-diyl (pentamethylene).

Claim 5. (Previously Presented): The compound according to Claim 1 wherein

A represents methylene.

Claim 6. (Previously Presented): The compound according to Claim 2 wherein

Q represents oxygen (O).

Claim 7. (Previously Presented): The compound according to Claim 1 wherein

R<sup>1</sup> represents cyclopropyl.

Claim 8. (Previously Presented): The compound according to Claim 1 wherein

$R^2$  represents hydrogen, methoxycarbonyl or ethoxycarbonyl.

Claim 9. (Previously Presented): The compound according to Claim 2 wherein

$R^6$  represents methyl, dimethylamino or cyclopropyl.

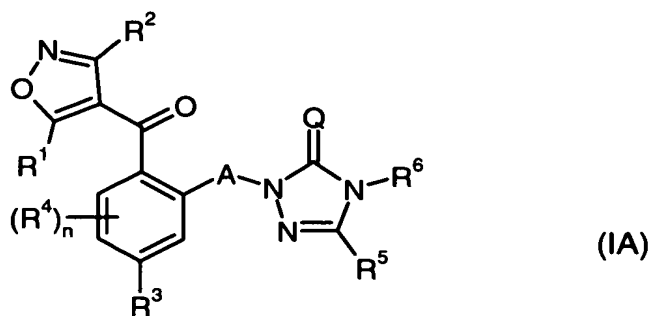
Claim 10. (Previously Presented): The compound according to Claim 1 wherein

$R^3$  represents chlorine, bromine, cyano, trifluoromethyl or methylsulphonyl.

Claim 11. (Currently Amended): The compound according to Claim 1 wherein

$R^4$  represents ~~hydrogen~~, cyano, chlorine, nitro, methyl, trifluoromethyl, methoxy or methylsulphonyl.

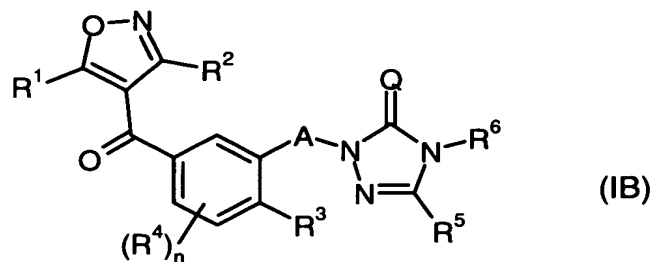
Claim 12. (Previously Presented): A compound of the Formula (IA)



in which

$n$ ,  $A$ ,  $Q$ ,  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$  and  $R^6$  are each as defined in Claim 2.

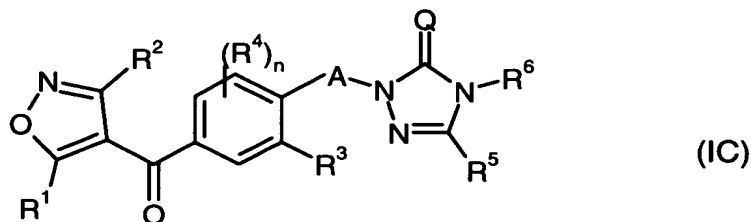
Claim 13. (Previously Presented): A compound of the Formula (IB)



in which

n, A, Q, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are each as defined in Claim 2.

Claim 14. (Previously Presented): A compound of the Formula (IC)



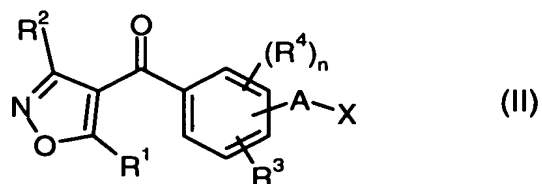
in which

n, A, Q, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are each as defined in Claim 2.

Claim 15. (Cancelled).

Claim 16. (Previously Presented): A process for preparing a compound of the Formula (I) according to Claim 1 wherein

(a) a benzoylisoxazole of the Formula (II)



in which

n, A, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are each as defined in Claim 1 and

X represents halogen

is reacted with a heterocycle of the Formula (III)



in which

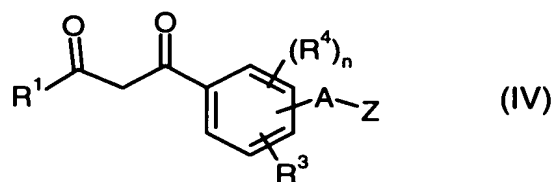
Z is as defined in Claim 1,

optionally in the presence of one or more reaction auxiliaries and optionally in the presence of one or more diluents,

or that

- if R<sup>2</sup> is hydrogen-

(b) a benzoyl ketone of the Formula (IV)



in which

n, A, R<sup>1</sup>, R<sup>3</sup>, R<sup>4</sup> and Z are each as defined in Claim 1

is reacted with a compound selected from the group consisting of an orthoformic ester and an N,N-dimethylformamide acetal

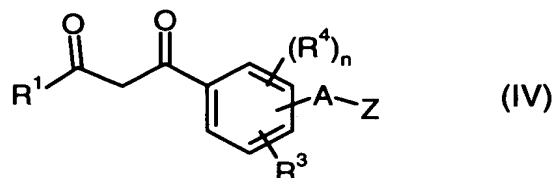
and are subsequently reacted with hydroxylamine or an acid adduct thereof,

optionally in the presence of one or more reaction auxiliaries and optionally in the presence of one or more diluents,

or that

- if  $R^2$  represents optionally substituted alkoxy carbonyl -

(c) a benzoyl ketone of the Formula (IV)



in which

$n$ ,  $A$ ,  $R^1$ ,  $R^3$ ,  $R^4$  and  $Z$  are each as defined in Claim 1

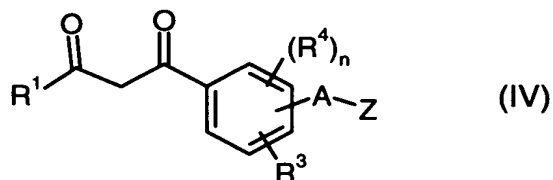
is reacted with a cyanoformic ester and then hydroxylamine, or an acid adduct of hydroxylamine, or are reacted with an alkyl chloro-hydroximino-acetate,

optionally in the presence of one or more reaction auxiliaries and optionally in the presence of one or more diluents,

or that

- if  $R^2$  represents alkylthio -

(d) a benzoyl ketone of the Formula (IV)



in which

$n$ ,  $A$ ,  $R^1$ ,  $R^3$ ,  $R^4$  and  $Z$  are each as defined in Claim 1

is reacted with carbon disulphide and with an alkylating agent

and then with hydroxylamine or an acid adduct thereof,

optionally in the presence of one or more reaction auxiliaries and optionally in the presence of one or more diluents,

and further optionally comprising the step of conducting electrophilic or nucleophilic substitutions and/or oxidations or reductions on the compounds of the Formula (I) obtained according to one of said processes (a) to (d).

Claims 17-19. (Cancelled)

Claim 20. (Previously Presented): An herbicidal composition comprising at least one compound according to Claim 1 and an extender.

Claim 21. (Currently Amended): A method for controlling undesirable plants comprising applying an effective amount of a compound of the Formula (I) according to Claim 1 to one or more members selected from the group consisting of said plants and an a habitat of said plants.